

## Kentucky Occupational Skill Standard List

### 1003 Production Agriculture – Crop

<b>AA</b>		<b>UTILIZE EFFECTIVE WORKPLACE COMMUNICATION SKILLS</b>
AA	001	Read and process information and follow instructions.
AA	002	Read material and describe concepts.
AA	004	Use correct spelling, grammar, and punctuation.
AA	005	Write with accuracy, brevity, and clarity.
AA	006	Demonstrate knowledge of conflict resolution techniques.
AA	007	Possess basic computer keyboarding skills.
AA	008	Demonstrate understanding of basic interpersonal communication (listening, written, oral, etc.)
AA	009	Implement new process steps given oral instructions.
AA	010	Demonstrate the characteristics of a team player.
AA	011	Contrast the roles of a team with the role of an individual.
AA	012	Perform techniques used as a team leader.
AA	013	Demonstrate productive relationships within the work group.
AA	014	Organize and deliver a persuasive oral presentation.
AA	015	Demonstrate proper speaking and presentation characteristics.
AA	016	Demonstrate basic leadership skills.
AA	017	Identify the organizational need for profit.
AA	019	Demonstrate use of an industry-accepted word processing software package.
<b>AB</b>		<b>APPLY MATH AND MEASUREMENT SKILLS</b>
AB	001	Add, subtract, multiply, and divide four-digit numbers with/without the use of a calculator.
AB	003	Apply basic math functions to solve problems.
AB	004	Convert between US and metric measurement systems.
AB	005	Convert fractional measurement to decimal measurement.
AB	006	Compute within measurement systems.
AB	007	Document results of measurement activities and calculations.
AB	008	Calculate with percents, rate, ratio, and proportions with the use of a calculator.
AB	009	Make reasonable estimates.
AB	011	Compute calculated measurements.
<b>AC</b>		<b>APPLY BASIC SCIENCE CONCEPTS AND SKILLS</b>
AC	001	Understand scientific plant and animal classification.
AC	002	Compare the anatomical parts and distinguishing characteristics of plants and animals.
AC	003	Understand the reproductive processes of plants and animals.
AC	004	Analyze the process of plant and animal growth and development.
AC	005	Be aware of biotechnology and its uses in production agriculture.
AC	006	Explain the use of applied genetics in plants and animals.
<b>EA</b>		<b>EXHIBIT WORKPLACE SKILLS</b>
EA	001	Demonstrate consistently punctual arrival.
EA	002	Document regular attendance.
EA	003	Demonstrate enthusiasm and confidence about work and learning new tasks.
EA	004	Demonstrate appropriate dress and hygiene for successful employment.
EA	005	Demonstrate the ability to act in a polite and respectful way towards co-workers.
EA	006	Demonstrate the ability to complete tasks on time and accurately.
EA	007	Demonstrate the ability to make career decisions.
EA	008	Prepare a resume and letter of application or interest.
EA	009	Complete an application for employment.
EA	010	Participate in an employment interview.
EA	011	Follow directions and procedures.
EA	012	Accept constructive criticism.
EA	013	Work with minimal supervision.
<b>EB</b>		<b>UNDERSTAND WORKFORCE ISSUES</b>
EB	001	Recognize the difference between a team environment workplace and a conventional workplace.

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EB	002	Identify the characteristics of a diverse workforce.
EB	003	Identify good ethical characteristics and behaviors.
EB	004	Differentiate between good and poor business ethics.
EB	005	Match employee responsibilities to employer expectations.
EB	006	Define discrimination, harassment and equity.
EB	007	Demonstrate non-discriminatory behavior.
EB	008	Maintain confidentiality and sensitivity of company information.
<b>EC</b>		<b>PERFORM BUSINESS PLANNING AND OPERATIONS PROCEDURES</b>
EC	001	Plan and manage work schedules.
EC	002	Maintain receipts and disbursements records.
EC	003	Maintain inventory records.
EC	004	Maintain computer records.
EC	005	Identify possible actions that may lead to customer dissatisfaction.
EC	006	Identify the ways that the level of customer satisfaction may affect company success.
EC	007	Explain the importance of a business reputation.
EC	008	Identify possible actions that may be used to correct customer dissatisfaction.
EC	009	Explain the effect of quality on profit.
<b>ED</b>		<b>DEMONSTRATE EFFECTIVE COMMUNICATION AND TEAMWORK SKILLS</b>
ED	001	Organize materials with a logical flow.
ED	002	Interpret and clarify directions prepared by others.
ED	003	Communicate with customers.
ED	004	Understand team concepts.
ED	005	Write steps of an occupational process using sentences and statements as appropriate.
ED	006	Select appropriate communication methods.
ED	008	Identify components of group dynamics.
<b>EE</b>		<b>DEMONSTRATE PROBLEM SOLVING TECHNIQUES</b>
EE	002	Apply a system of problem solving.
<b>OA</b>		<b>APPLY PRINCIPLES OF ANIMAL SCIENCE</b>
OA	001	Apply principles of livestock nutrition.
OA	002	Apply principles of health management.
OA	003	Utilize appropriate livestock selection techniques.
OA	004	Understand principles of reproductive physiology and utilization of appropriate technology (synchronization, artificial insemination, embryo transfer)
<b>OB</b>		<b>APPLY PRINCIPLES OF PLANT SCIENCE</b>
OB	001	Utilize appropriate variety selection techniques.
OB	002	Demonstrate ability to read and utilize seed tag information.
OB	003	Demonstrate acceptable agronomic practices (seeding rates, plant spacing, planting dates)
OB	004	Identify appropriate seed bed preparation techniques (no-till, conventional-till, rotations).
OB	005	Identify appropriate techniques for harvesting and storage of crops.
OB	006	Understand plant growth requirements.
<b>OC</b>		<b>UTILIZE INDUSTRY RESOURCES</b>
OC	001	Apply use of related electronic technology (email, computer applications, GPS, precision farming, ultrasound, electronic ear tags, and computer feeding).
OC	003	Interpret the input of local, state, national, and international economy to production agriculture.

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OC	004	Maintain awareness of current trends in production agriculture through industry associations, trade journals, and internet resources.
<b>OD</b>		<b>IMPLEMENT FARM BUSINESS MANAGEMENT PRACTICES</b>
OD	001	Apply effective record keeping skills including financial records.
OD	002	Demonstrate knowledge of budgeting and cash flow.
OD	003	Understand requirements for and sources of credit.
OD	004	Understand procedures related to buying, leasing, and renting land and/or equipment.
OD	005	Understand issues related to tax records and filing taxes.
<b>OE</b>		<b>DETERMINE APPROPRIATE MARKETING AND SALES STRATEGIES</b>
OE	001	Maintain an awareness of world trade issues (GMO's, drought, trade agreements)
OE	002	Maintain an awareness of strategies relating to futures, forward cash contracts, storage.
OE	003	Maintain an awareness of risk management practices (crop insurance).
OE	004	Explore marketing resources (marketing clubs, extension programs, brokers, consultants).
OE	005	Demonstrate knowledge of specialty agriculture markets (e.g. tobacco, aquaculture, etc.).
OE	006	Develop and interpret marketing plans.
<b>OF</b>		<b>APPLY AGRICULTURAL MATHEMATICS SKILLS</b>
OF	001	Utilize basic units of distance, dry and liquid measurements.
OF	002	Calculate break-even prices.
OF	003	Calculate proper medicine dosages.
OF	004	Formulate and evaluate rations.
OF	006	Determine material supplies.
OF	007	Calculate area and volume measurements (acreage, storage, stocking).
OF	008	Analyze rations (fertilizers).
<b>OG</b>		<b>UTILIZE EFFECTIVE LABOR MANAGEMENT TECHNIQUES</b>
OG	001	Develop an understanding of related legal, financial, and labor issues.
OG	002	Demonstrate an understanding of the issues related to utilizing immigrant labor.
OG	003	Demonstrate effective and efficient delegation of labor.
<b>OH</b>		<b>MONITOR AND CONTROL HEALTH, DISEASES, AND PESTS</b>
OH	001	Demonstrate effective pest management practices.
OH	002	Recognize common plant and animal diseases.
OH	003	Apply appropriate prevention techniques and treatments of plant and animal diseases.
OH	004	Utilize understanding of plant and animal nutrition in the management and prevention of diseases.
OH	005	Utilize understanding of varieties and breeds in the management and prevention of diseases.
OH	006	Understand agriculture's relationship and responsibility to guarantee a safe food supply and a healthy environment.
<b>OI</b>		<b>DISTINGUISH AND SELECT APPROPRIATE PRODUCTION TECHNIQUES</b>
OI	001	Utilize appropriate production techniques for livestock (beef cattle, dairy cattle, swine, horses, sheep, poultry, specialty animals)
OI	002	Utilize appropriate production techniques for crops (corn, soybeans, tobacco, forage).
<b>OJ</b>		<b>APPLY BEST MANAGEMENT SAFETY PRACTICES</b>
OJ	001	Follow theft and security procedures.
OJ	002	Identify and follow emergency, safety and health rules/procedures.
OJ	003	Identify hazardous substances in the workplace.
OJ	004	Identify immediate and real costs of an accident,
OJ	005	Identify methods of preventing accidents in the workplace.

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OJ	006	Assume responsibility for the personal safety of self and others.
OJ	007	Report unsafe practices to the appropriate personnel.
<b>OK</b>		<b>EVALUATE RELATED GOVERNMENT AND LEGAL ISSUES</b>
OK	001	Demonstrate an understanding of state and federal agricultural legislation (farm bill).
OK	002	Demonstrate an understanding of agricultural law (border disputes, incorporation, liability issues, injury claims, attractive nuisance, farming in populated areas).
OK	003	Identify related government agencies, their functions, and their programs affects as they relate to the farm.
<b>OL</b>		<b>UTILIZE INDUSTRY-RELATED TERMINOLOGY AND IDENTIFICATION SYSTEMS</b>
OL	001	Identify common agronomic plants, grains, feeds, and seeds.
OL	002	Identify weeds and other crop pests.
OL	003	Use appropriate agricultural terminology.
OL	004	Identify the anatomical parts of domestic livestock.
OL	005	Demonstrate knowledge of livestock breeds.
OL	006	Demonstrate knowledge of the livestock carcass.
OL	007	Recognize livestock pests.
<b>OM</b>		<b>UTILIZE AGRICULTURAL STRUCTURES AND FACILITIES</b>
OM	001	Identify needs of livestock, crop, and equipment storage.
OM	002	Calculate and analyze cost of storage.
OM	003	Demonstrate the ability to safely operate basic agriculture equipment.
<b>ON</b>		<b>UTILIZE BEST MANAGEMENT PRACTICES AS RELATES TO AGRICULTURAL ENVIRONMENTAL ISSUES</b>
ON	001	Utilize appropriate soil conservation practices.
ON	002	Identify and apply appropriate water conservation practices.
ON	003	Analyze and enhance soil fertility.
ON	004	Assess fertilizer and pesticide applications.
ON	005	Utilize livestock to enhance soil and water quality.